HEADQUARTERS
UNITED STATES ARMY MATERIEL COMMAND
WASHINGTON, D.C. 20315

AMC REGULATION
NUMBER 750-27

31 August 1966

MAINTENANCE OF SUPPLIES AND EQUIPMENT

AMC MANAGEMENT UTILIZATION OF FEEDBACK DATA

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1. Purpose. a. This regulation prescribes policies, responsibilities, and guidance for establishing a standard method of transmitting data to each commodity command from the AMC Logistic Data Center, Lexington-Blue Grass Army Depot, Lexington, Kentucky.

b. It directs the development of a "closed loop" maintenance management system using management by exception techniques relating to the preparation and utilization of reports.

c. It provides the logistical manager with a means of analyzing the Materiel Readiness Report (Reports Control Symbol CSGLD-1042 (R1)) (DA Form 2406) and other reports recorded and forwarded by automatic data processing (ADP) by the AMC Logistic Data Center.

2. Scope. a. This regulation applies to Headquarters, U.S. Army Material Command (AMC); AMC major subordinate commands (including subordinate installations and activities); project managers; and separate installations and activities reporting directly to Headquarters, AMC.

b. The first application to be covered by this regulation is failure data. Other applications will be

covered by the addition of appendixes to this regulation as the rationale is developed.

3. Definitions. For the purpose of this regulation, the following definitions apply:

a. Maintenance data file. This file provides information on the number of maintenance actions performed on a particular type and model weapons system/commodity and the man-hours expended in performing the actions. It also reflects the results of inspection and time change interval analysis, incidents involving possible materiel failure, and maintenance requirements resulting from either design or maintainability deficiency.

b. Standard transfer record. A summary (tape) prepared by the AMC Logistic Data Center which provides the appropriate national maintenance points (NMP's) with essential elements of data extracted from The Army Equipment Records System (TAERS) forms.

c. Closed-loop management. The logic and cycle which insures that maintenance management tools result from the incidence of raw data reported by the field, and that these tools are utilized to satisfy the information requirements of both the commodity commands and higher headquarters related to those items selected for maintenance management.

d. Maintainability. Characteristics of the equipment and components that will be determined or predicted in terms of their contribution to the overall maintainability characteristics required to achieve the system operational requirements at each level of maintenance. Factors considered will include, but are not limited to, mean time between failures, mean time for repair, mean time for scheduled maintenance, technical skills, special equipment, level of maintenance and location of facilities, operational environment, requirements for exchange components and spare parts, and time between overhaul.

e. Reliability. The probability that a system will perform satisfactorily without a maintenance failure for a predetermined usage measurement, e.g., M/H/R (miles/hours/rounds). The underlying distribution of times to failure or times to malfunction is the basis of practically all reliability measurements.

f. National maintenance point. That support activity which is responsible to the appropriate commodity command for maintenance management of a specific item(s), family of items, and commodity areas.

g. Deficiencies. Those failures which are highlighted in the failure data exception reports and summaries (sec II, app I).

4. General. a. The commodity command is the Army element primarily responsible for the management of logistical support of specified systems and items, components, or repair parts. In that capacity the commodity command is responsible for:

(1) Planning and programing for the full range of Army logistical support.

(2) Coordinating the solution to equipment materiel problems of the using commands.

(3) Satisfying item demands.

b. Each commodity command has a functional responsibility for quality control, maintenance engineering, equipment improvement, initial provisioning, publication updating, resupply, etc. The technique of management in these functional areas incorporates statistical methodology. The procedures contained herein contribute to the concept of the management cycle, involving all applicable functional responsibilities.

c. The improvement of an item as a product of the management cycle includes recognition of probable materiel deficiencies and necessary actions taken to correct them before they become a field problem.

5. Objectives. a. To achieve constant readiness of equipment or systems by assuring that items of materiel and related services meet quality requirements through continual and systematic evaluation of maintenance data to determine means of correcting equipment deficiencies.

b. To establish a system of operations at the commodity commands that will measure and portray management effectiveness in terms of logistical support, performance, effectiveness, and status to progressively higher management levels.

c. To develop management by exception reports on maintenance data which will serve as the basis for review, modification, and standardization of management logic by all the commodity commands.

6. Policy. a. The program outlined in this regulation is designed to improve the maintenance management cycle by providing a tool, through maintenance data exception reports, to assure that actual or potential materiel deficiencies are highlighted and used to correct shortcomings.

Objectively, in-service experience will be reflected in research, development, design, and production activities if proper followup action has resulted from the generated reports.

b. The data elements established in the standard transfer record will provide significant management information for all commodities, which is necessary to assure compliance with the objectives of AR 750-5. It will provide a means of generating, as necessary, those reports to AMC which identify actions taken, completed, in process, or suspended on any item of Army materiel selected for management.

c. The standard transfer record will provide for the continuous feedback of field data from the AMC Logistic Data Center to the commodity commands.

7. Responsibilities. a. The Commanding General, AMC, has staff supervision over, and the responsbility for, the development of the maintenance management program in accordance with the objectives of AR 750-5. In addition, Headquarters, AMC, staff elements, will serve as the focal point for the analysis of volumes I and II of the materiel readiness report, as forwarded to the Department of the Army.

b. AMC commodity commands will use maintenance management feedback data in the analysis of equipment, component, or parts failures. Requests for corrective actions will be disseminated to the equipment user. The commodity commands will be responsive to questions from higher headquarters in support of materiel readiness studies and equipment reliability and maintainability factors.

8. Procedures. a. These procedures apply to all commodity commands responsible for logistical support of Army materiel. Each commodity command will operate an automated central maintenance data file. This data file will be utilized by the maintenance managers in the following areas:

(1) Equipment failure data evaluation.

(2) Development and revision of maintenance allocation and repair parts allowances.

(3) Review of repair procedures.

(4) Maintenance review.

(5) Development and revision of repair and overhaul criteria.

(6) Development and revision of maintenance man-hour requirements at field and maintenance support levels.

(7) Review and revision of periodic maintenance services.

(8) Equipment standardization study.

(9) Determining the adequacy of modification work order (MWO) performance by followup action.

b. Headquarters, AMC, elements, will:

(1) Review and analyze volumes I and II of the materiel readiness report. Take positive action indicated by such analysis to adjust:

(a) Continental United States (CONUS) deployable assets.

(b) Rebuild schedules.

(c) Procurement schedules.

(2) Establish a target date for relieving (makeup) shortages reported by adjustments in (1) above.

(3) Request an automatic trend analysis from the responsible commodity maintenance manager of those parts, failures, or shortages reported in volume II of the materiel readiness report and commented on by the commanders.

(4) Review inventory of parts, utilize data available in supply status, and review maintenance allocation charts (MAC's) for theater use.

(5) Coordinate with commodity commands to assure that computer time and personnel are available for processing priority maintenance data.

(6) Establish criteria for maximum feasible edit of data by the AMC Logistic Data Center prior to submission to the commodity commands.

(7) Assure that tapes furnished by the AMC Logistic Data Center are converted to processing compatibility at each commodity command.

(8) Exercise overall AMC staff supervision for managing actions implemented by this procedure.

(9) Review data requirements reported for those actions taken as a result of maintenance data evaluation at the commodity commands, such as:

(a) Change of maintenance factors which affect provisioning, supply, and/or publication activities.

(b) Reliability of equipment based on increments of usage, age, manufacturer, etc.

(c) Maintainability of specific equipment (e.g., on times between failure, downtime).

(10) Assure review by all directorates of the equipment improvement report (EIR) digest to assure that maintenance actions contained therein have resulted in corollary actions, when applicable, to publication change, supply action, and readiness appraisal.

(11) Review, analyze, and adjust equipment serviceability criteria.

c. Commodity commands. The commodity commands will insure accomplishing such logistical support actions as:

(1) Establishing engineering data requirements.

(2) Provisioning the development of supplemental program data for components and parts requirements computation.

(3) Developing support capability status reports.

(4) Providing engineering services on systems, items, components, or repair parts.

(5) Supporting overhaul programs.

(6) Assuring compatibility of modifications.

(7) Maintaining current status of the central maintenance data file by updating from the standard transfer record furnished by the AMC Logistic Data Center.

(8) Developing management techniques (AR 750-2) to utilize the automated reports and summaries generated by TAERS.

(9) Implementing excessive failure reports and summaries applicable to the components and parts of components of end items listed in the DA Form 2408-3 (Equipment Maintenance Record (Organizational)) column and the DA Form 2410 (Component Removal and Repair/Overhaul) column of appendix III, TM 38-750.

(10) Implementing excessive failures management techniques, reports, and summaries on all the items reportable under TAERS (app I) to satisfy specific requirements (para 20, AR 750-5).

(11) Assuring that implementation ((3) above) includes review of excessive failure reports by the appropriate functional activities and that the review and analysis results in corrective action.

(12) Assuring that the management actions taken include as a minimum:

(a) Appropriate adjustments of the economics of maintenance.

(b) Adjustment, as necessary, to maintenance man-hour requirements.

(c) Product improvement.

(d) Revision of preventive maintenance criteria, as required.

(e) Review, analysis, and adjustment, as necessary, of maintenance allocations and provisions.

(f) Review and analysis of parts components failure data and repair/overhaul data to increase maintainability, reliability, and time between overhaul of equipment.

(13) Updating the appropriate section of TM 38-750-2 in consonance with this directive, as necessary.

d. AMC Logistic Data Center. The AMC Logistic Data Center, Lexington-Blue Grass Army Depot, will:

(1) Convert all maintenance data furnished through TAERS reports to tapes. The tapes will be transmitted to the commodity commands without "tape labels" because of ADP equipment differences at the various installations.

(a) The record content and positioning formats which identify the card code and card columns required for the tape alinements of the standard transfer record are prescribed in appendix I.

(b) The data processing storage layouts which identify the standard transfer record for transmittal to the commodity commands by the AMC Logistic Data Center are prescribed in appendix I.

(2) Verify the Federal stock numbers (end item and parts) entered on Department of the Army forms originating through TAERS.

(3) Provide the commodity commands with a cross-reference of the organization identification code and the unit identification code. This cross-reference will be provided by request only.

e. AMC Logistic Systems Support Center. The AMC Logistic Systems Support Center (AMCLSSC), Letterkenny Army Depot, will:

(1) In coordination with the commodity managers, develop appropriate maintenance applications to be included as sequential appendixes to this regulation. Such additional areas will include, but not be limited to, MWO control, man-hours utilization reporting, etc.

(2) Monitor the implementation of appendixes to this regulation on a Headquarters, AMC, project-assignment basis in accordance with assigned AMCLSSC mission and functional responsibilities.

(3) Provide assistance to the commodity managers and the AMC Logistic Data Center, as required, on problems related to record and format design contained in appendix I.

(4) Review requested changes to this regulation and take appropriate action. Request for changes to this regulation will be forwarded to the Commanding Officer, Letterkenny Army Depot, ATTN: AMXLE-NSM.

9. References. The following publications are associated with this regulation:

a. MIL-STD-105D.

b. AR 750-2.

c. AR 750-5.

d. TM 38-750.

e. TM 38-750-1.

f. TM 38-750-2.

g. AMCR 18-3.

Appendix I

UTILIZATION AND EXCESSIVE FAILURE DATA REPORTS

1. Sections I and II contain formats of the standard transfer record furnished the national maintenance points (NMP's) by the AMC Logistic Data Center, Lexington-Blue Grass Army Depot, and model formats to provide reports and summaries for management and for utilizing failure data.

2. Four excessive failure reports are shown as model formats (sec II). Data elements listed in paragraph 3e(6) are the minimum data required to provide management information to higher headquarters. It will be mandatory to include these data elements in the excessive failure data report (para 3e(5)(a)). The additional failure data model type reports shown (other than the excessive failure report) may be used in part or in total as management tools. This will be a command decision in each commodity area, and utilization of all reports shown will not be mandatory. Other internal reports are not precluded, specifically, as they relate to commodity pecularities.

3. NMP's at the commodity commands will be responsible for preparing and utilizing failure data exception type summaries or reports to:

a. Provide a trend analysis, using a base line of 1-year's data. The data will be segmented by quarters, as a minimum, to provide a trend analysis. This does not preclude more frequent segmented reporting, when necessary.

b. Assure that all failure data exception type reports are coded and a maintenance factor provided prior to machine processing.

c. Assure that all failure data exception type reports related to commodity areas of vehicles or aircraft provide for materiel status by age, usage in miles/hours/rounds, and geographic location.

d. Develop a maintenance rate as a base line and establish a high and low parameter to determine excessive parts failure by adaptation of the two sigma deviation principles contained in MIL-STD-105D. An example of this formula is as follows: maintenance rate percent $\pm\frac{\sqrt{M/R\ (1-M/R)}}{100}$.
For the purpose of this regulation, the application of a deviation formula will be mandatory; however, each commodity command will determine the base line maintenance rate for each item managed.

e. Assure that the management logic and the management cycle provide a closed-loop type of mangement by evaluating failure data by exception reports; through action taken by appropriate functions of the command to correct such failures; and to allow immediate response to questions by higher headquarters concerning equipment to which these failure data are relevent. Each NMP will accomplish this management cycle as follows:

(1) Designate a central point or office as a point for coordinating maintenance actions resulting from this directive.

(2) Establish procedures within the operating activities of each commodity command to assure timely resolution of deficiences indicated by the failure data reports and summaries. These procedures must establish priority action and control to assure completion of action.

(3) Coordinate with the AMC Logistic Data Center to insure that all pertinent data are included in the machine data processing of field data forwarded to the commodity command for updating the maintenance data file.

(4) Develop all future maintenance data extracts or report requirements as a management tool to accomplish maintenance management actions.

(5) The excessive failures reports (para 2) are:

(a) Excessive failures report.

(b) Breakdown by subassembly report.

(c) Failures by using organization report.

(d) Breakdown by first indication of trouble report.

(6) The excessive failures report ((5)(a) above) will contain the following management data elements as a minimum:

(a) Serial number (if possible).

(b) Federal stock number.

(c) Nomenclature.

(d) Maintenance rate (part failure rate).

(e) Normal quantity.

(f) High quantity.

(g) Low quantity.

(h) Usage by miles/hours/rounds, if applicable.

(i) Mean time between failure.

(j) Geographic disposition (to division level).

(7) Include the following elements related to equipment distribution and condition:

(a) Age.

(b) Usage by miles/hours/rounds, etc.

(c) Geographic location.

(8) Use the standard failure data provided by the standard transfer record (sec I, app I) for the purpose(s) and time cycle(s) contained specifically in the above reports. The format for reporting excessive failure summaries for internal use by each NMP may give cognizance to commodity peculiarity. Such format and machine logic will respond to the technique used in the sample reports and data elements listed in (5) above and shown in section II.

(9) The failure data exception reports (sec II, app I) are summary in nature. They are designed to provide capability of inquiry in depth. Each NMP will develop internal programs and will control the programs through the central coordination office to disseminate significant failure data for research and action by cognizant activities.

(10) Analysis of the failure data by the functional area within each NMP or other affected activity within each commodity command must result in an action and in establishing a priority for that action. Priorities will be assigned on the basis of importance of the action and generally categorized as "priority one" if an engineering change order, a modification work order (MWO), critical downtime factors, or personnel safety hazards are indicated. All other actions will be categorized as "priority two." A control by code number of each action case and priority will be established. Such action cases may include, but are not limited to:

(a) Change in the maintenance rate by the provisioning activity.

(b) Corrective maintenance actions or operational instruction procedures which result in publication revision.

(c) Maintenance engineering actions resulting from analysis of trends or excessive failure. Such actions will prevent potential equipment failure and will preclude field submission of equipment improvement reports (EIR's).

(d) Development of an MWO resulting from failure data analysis, as well as followup on the effectiveness of the MWO, and additional action as necessary.

(e) Adjustment of requirements and stocks by the supply activity at each commodity command.

(f) Actions related to product improvement which affect materiel readiness.

(g) Answers to those questions related to comparative reliability and maintainability of components of a major item.

(11) As additional information for the EIR digest, publish the maintenance operational actions resulting from analysis of failure data in accordance with this directive.

Section I

STANDARD TRANSFER RECORD
RECORD CONTENT AND POSITIONING
(2407 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
	LDC[1]	Routing identifier code	3	1-3		
		Document number		(4-17)		
	LDC	Batch number	3	4-6		
	LDC	Julian processing date	4	7-10		Julian date.
1	1-6	Control number	6	11-16		
1	6	Correction code	1	17		No "11" punch in card column 6, card 1--no correction. "11" punch in card column 6, card 1--convert to numeric "1."
	LDC	Record code	1	18		"M."
		Requesting unit		(19-26)		
	LDC	Army area	1	19		
1	7-13	Unit identification code (UIC)	7	20-26		

[1]AMC Logistic Data Center (AMCLDC).

[2]All data left-justified unless otherwise indicated.

(2407 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
		End item		(27-78)		
1	14-23	Serial number	10	27-36	R	FSN (Federal stock number) in card 1 (card colm 65-79).
1	24-31	Noun	8	37-44		FSN in card 1 (card colm 65-79).
1	32-39	Line number	8	45-52		FSN in card 1 (card colm 65-79).
1	40-47	Model/series	8	53-60		FSN in card 1 (card colm 65-79).
LDC		Manager routing identifier code (RIC)	3	61-63		FSN in card 1 (card colm 65-79).
1	65-79	FSN of end item	15	64-78		Item described in card 1 (card colm 14-47).
LDC		Serial/nonserial code	1	79		"S" equals serial; "Z" equals nonserial.
LDC		Hours, miles, rounds, and starts	1	80		"H," "M," "R," or "S."
LDC		MRW code[3]	1	81		

[2]See footnote 2, page 13.

[3]"M" indicates selected item; "R" indicates recoverable item; "W" indicates MWO for nonselected item.

(2407 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
1	48	United States Strategic Army Corps (STRAC) unit	1	82		"1"--Yes. "2"--No.
1	49	Utilization code	1	83		
3	14-18	Hours	5	84-88	R	
3	19-23	Miles	5	89-93	R	
3	24-28	Rounds	5	94-98	R	
3	29-33	Starts	5	99-103	R	
3	34	Failure detected code	1	104		
3	35-37	First indication of trouble	3	105-107		
		Repairing unit		(108-116)		
	LDC	Army area	1	108		
3	49-55	UIC	7	109-115		
3	56	TD/TOE contract	1	116		

Key to explanation column:

"1"--TOE (table of organization and equipment).
"2"--TD (table of distribution).
"3"--Contractor.

[2]See footnote 2, page 13.

(2407 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
3	57-64	Army Management Structure (AMS) code	8	117-124		
4	14	Action code	1	125		
		Dates		(126-145)		
5	15-18	Submitted	4	126-129		
5	19-22	Received	4	130-133		
5	23-26	Start	4	134-137		
5	27-30	Inspect	4	138-141		
5	31-34	Accept	4	142-145		
5	35	Disposition	1	146		
5	36	Normal replacement code	1	147		
2	48-51	Total man-hours	5	148-152	R	
2	52-57	Total man-hours cost	6	153-158	R	
2	58-64	Total parts cost	7	159-165	R	
1	51-53	Quantity indicated	3	166-168	R	

[2]See footnote 2, page 13.

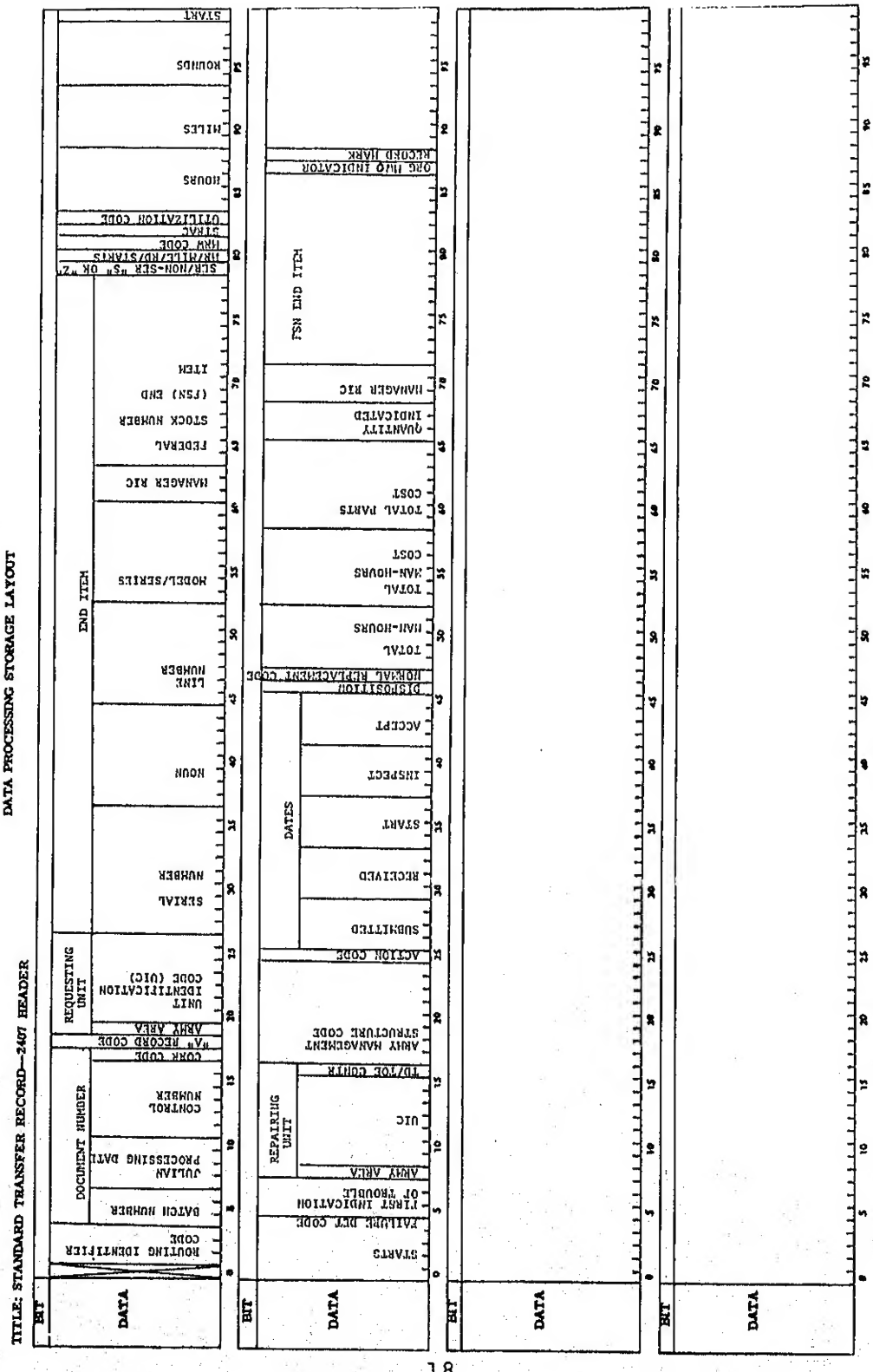
(2407 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
LDC		Manager RIC	3	169-171		FSN in card 1 (card colm 54-64).
1	65-79	FSN end item	15	172-186		For end item of recoverable component.
4	40	Organization modification work order (MWO) indicator	1	187		Blank--Normal. "1"--MWO.
		Record mark	1	188		"≠."

[2]See footnote 2, page 13.

DATA PROCESSING STORAGE LAYOUT

TITLE: STANDARD TRANSFER RECORD--2407 HEADER



(2407 TRAILER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
	LDC[1]	Routing identifier code	3	1-3		
		Document number		(4-17)		
	LDC	Batch number	3	4-6		
	LDC	Julian processing date	4	7-10		Julian date.
4	1-6	Control number	6	11-16		
4	6	Correction code	1	17		No "11" punch in card column 6, card 1--no correction. "11" punch in card column 6, card 1--convert to numeric "1."
	LDC	Record code	1	18		"S."
4	14	Action code	1	19		
4	15-17	Failure code	3	20-22		
4	(18-39)	Component, part, noun, service, or MWO	22	(23-44)		
4	18-22	Component breakdown (CB) code	5	23-27		
4	23-29	Designator	7	28-34		

[1]See footnote 1, page 13.

[2]See footnote 2, page 13.

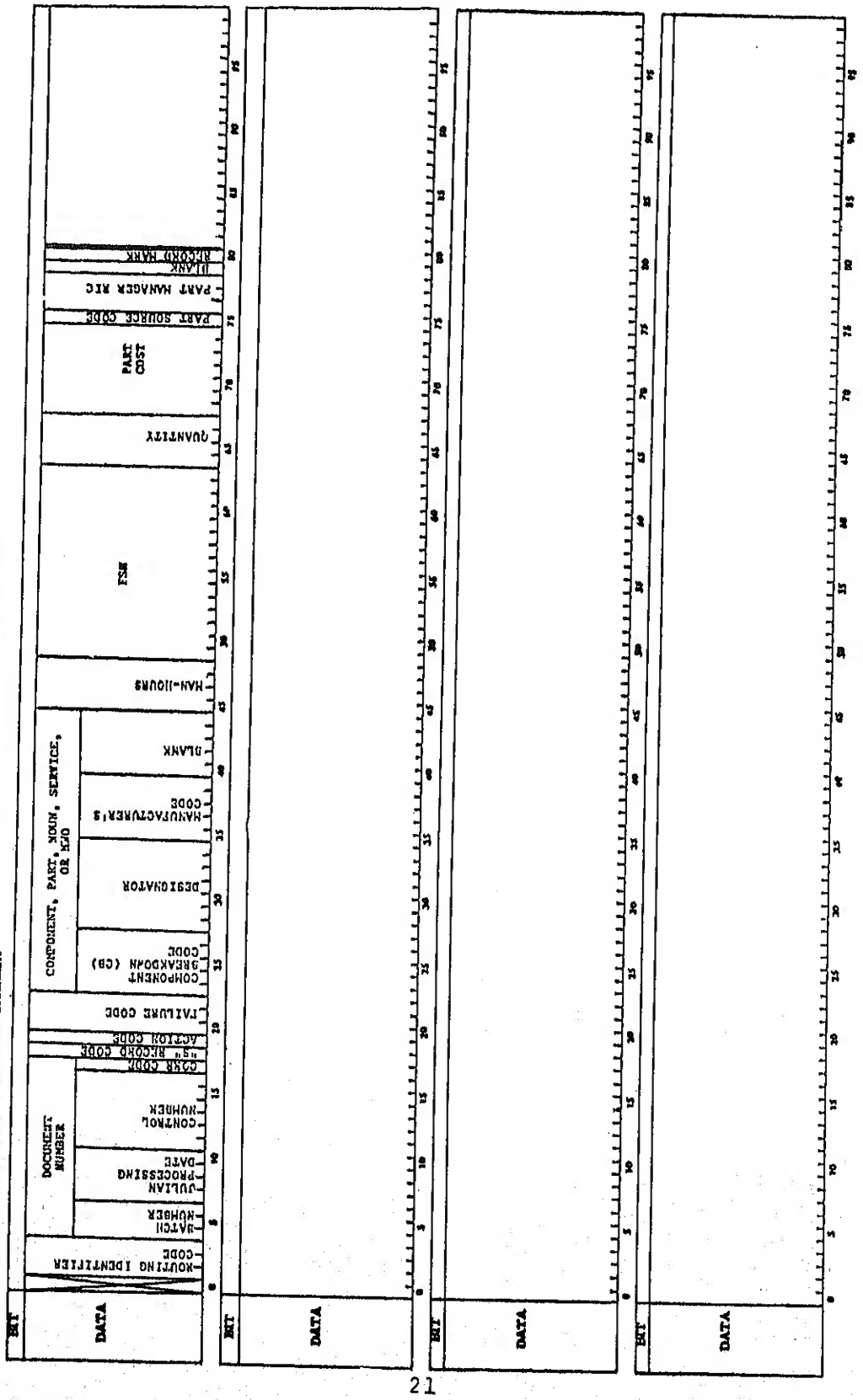
(2407 TRAILER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
4	30-34	Manufacturer's code	5	35-39		
4	35-39	Blank	5	40-44		
4	40-43	Man-hours	4	45-48	R	Fourth position contains tenths of hours.
4	44-58	FSN	15	49-63		
4	60-63	Quantity	4	64-67	R	
LDC		Part cost	7	68-74	R	
4	59	Part source code	1	75		
LDC		Part manager RIC	3	76-78		
		Blank	1	79		
		Record mark	1	80		"≠."

[2]See footnote 2, page 13.

DATA PROCESSING STORAGE LAYOUT

TITLE: STANDARD TRANSFER RECORD--2407 TRAILER



(2408-3 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
	LDC[1]	Routing identifier code	3	1-3		
		Document number		(4-17)		
	LDC	Batch number	3	4-6		
	LDC	Julian processing date	4	7-10		Julian date.
A	1-6	Control number	6	11-16		
A	6	Correction code	1	17		No "11" punch in card column 6, card 1--no correction. "11" punch in card column 6, card 1--convert to numeric "1."
	LDC	Record code	1	18		"A."
		Reporting unit		(19-26)		
	LDC	Army area	1	19		
A	7-13	UIC	7	20-26		
		End item		(27-78)		
A	14-23	Serial number	10	27-36	R	
A	24-31	Noun	8	37-44		

[1]See footnote 1, page 13.

[2]See footnote 2, page 13.

(2408-3 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
A	32-39	Line number	8	45-52		
A	40-47	Model/series	8	53-60		
LDC		Manager RIC	3	61-63		
A	65-79	FSN of end item	15	64-78		
LDC		Serial/nonserial code	1	79		"S" equals serial. "Z" equals nonserial.
LDC		Hours, miles, rounds, and starts	1	80		"H," "M," "R," or "S."
LDC		MRW code[3]	1	81		
A	48	STRAC	1	82		"1"--Yes. "2"--No.
A	49	Utilization code	1	83		
D	16-20	Start/cutoff hours	5	84-88	R	
D	21-25	Start/cutoff miles	5	(89-93)	R	
D	35-37	Landing (aircraft only)	3	91-93	R	
D	26-30	Start/cutoff; rounds/starts	5	94-98	R	

[2]See footnote 2, page 13.

[3]See footnote 3, page 14.

(2408-3 HEADER)

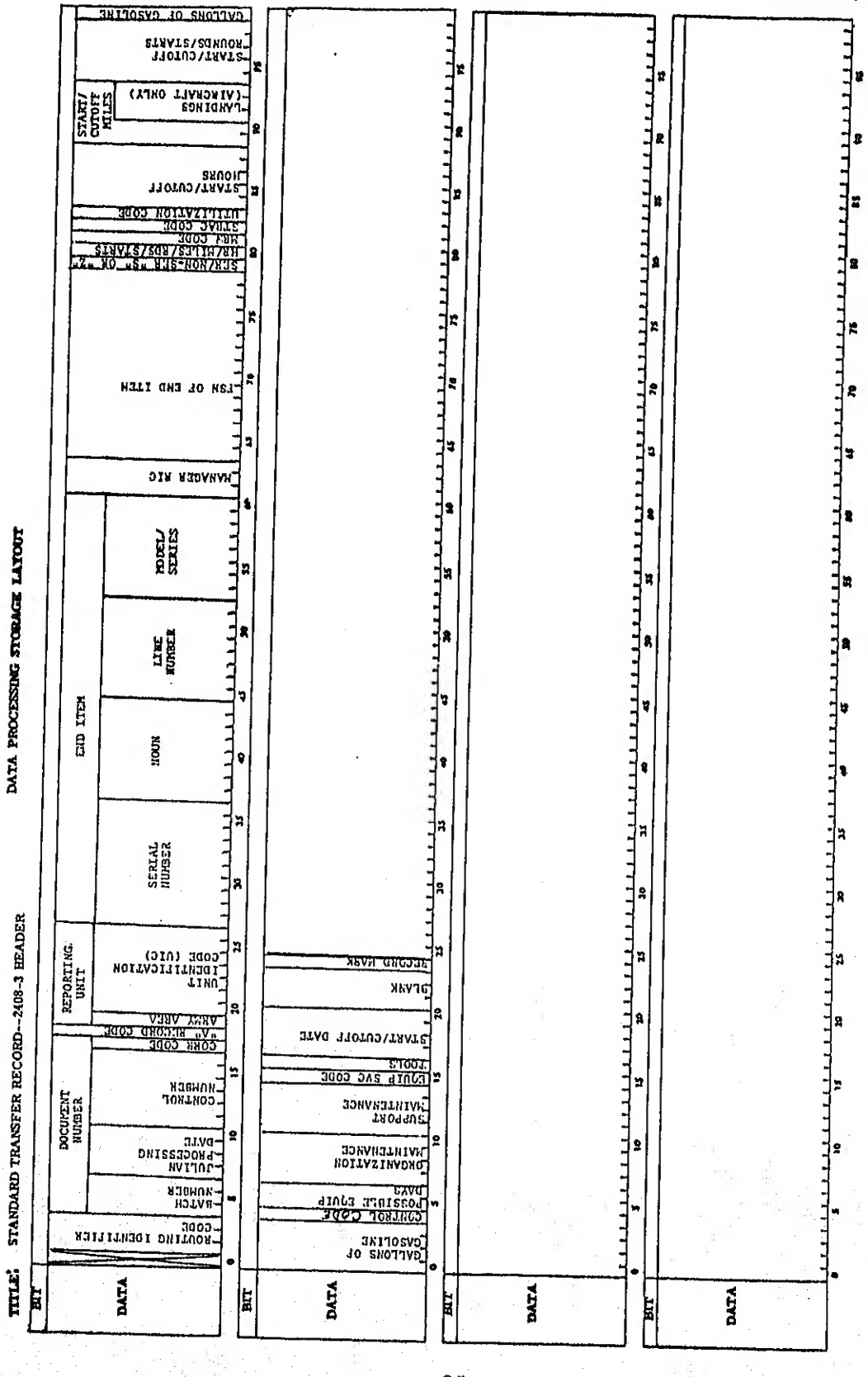
From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
D	38-42	Gallons of fuel	5	99-103	R	
D	64	Control	1	104		
D	43-44	Possible equipment days	2	105-106	R	
D	45-47	Organization maintenance[4]	4	107-110	R	
D	48-50	Support maintenance[4]	4	111-114	R	
D	51	Equipment serviceability code	1	115		"A"--Green. "B"--Amber. "C"--Red.
D	52	Tools	1	116		
D	31-34	Start/cutoff date	4	117-120		
		Blank	3	121-123		
		Record mark	1	124		"≠."

[2]See footnote 2, page 13.

[4]Organizational and support maintenance fields represent hours in missile equipment reports. An overpunch "11" or "12" in card columns 45 and 48 will expand fields by one thousand or two thousand, respectively.

TITLE: STANDARD TRANSFER RECORD--2408-3 HEADER

DATA PROCESSING STORAGE LAYOUT



(2408-3 TRAILER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
LDC[1]		Routing identifier code	3	1-3		
B		Document number		(4-17)		
LDC		Batch number	3	4-6		
LDC		Julian processing date	4	7-10		Julian date.
B	1-6	Control number	6	11-16		
B	6	Correction code	1	17		No "11" punch in card column 6, card 1--no correction. "11" punch in card column 6, card 1--convert to numeric "1."
LDC		Record code	1	18		"D."
B	20	Action code	1	19		
B	21-23	Failure code	3	20-22		
B	24-40	Component, part, noun, or service	17	(23-39)		
B	24-28	Component breakdown (CB) code	5	23-27		

[1] See footnote 1, page 13.

[2] See footnote 2, page 13.

(2408-3 TRAILER)

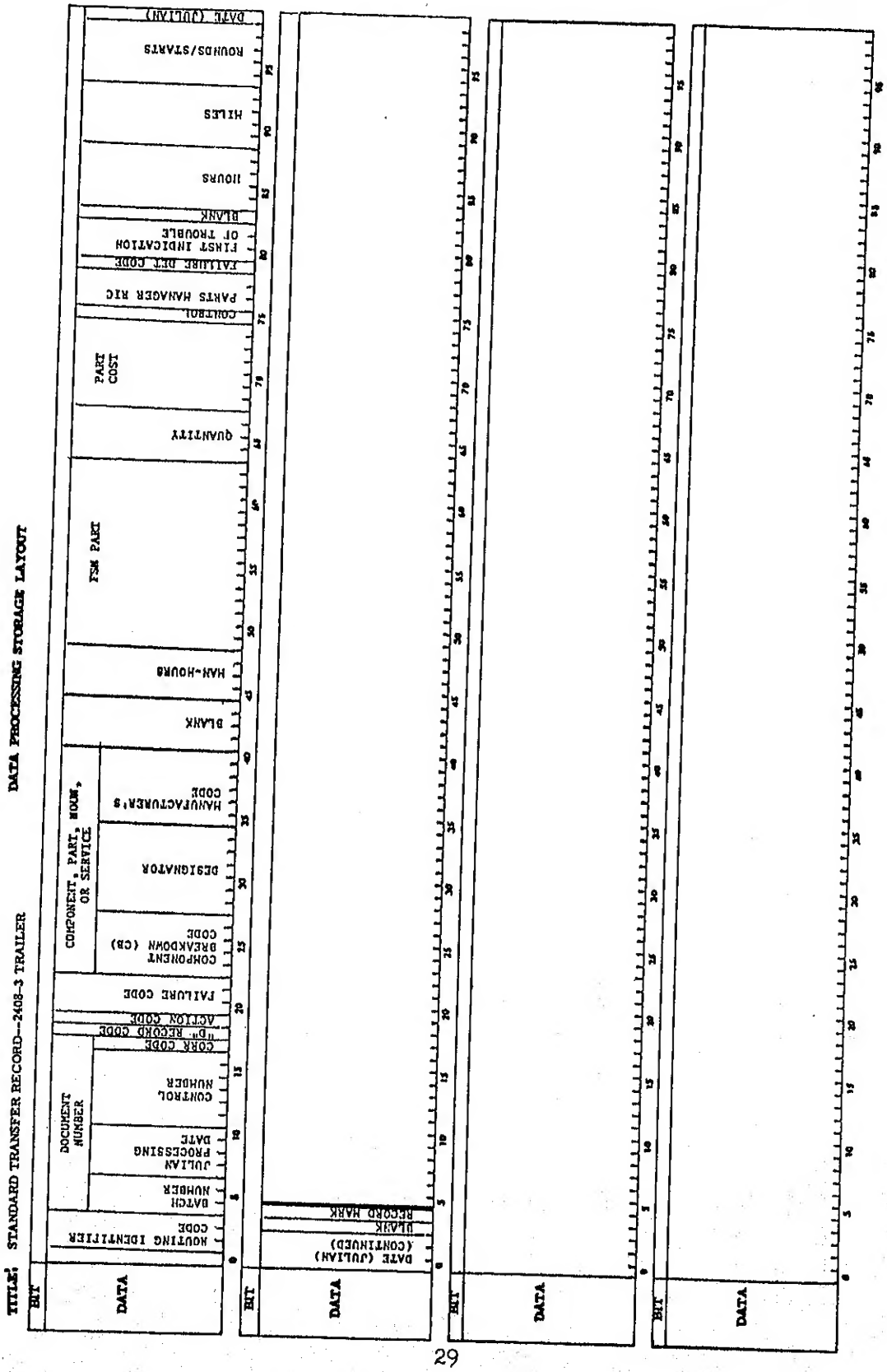
From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
B	29-35	Designator	7	28-34		
B	36-40	Manufacturer's code	5	35-39		
		Blank	5	40-44		
B	41-44	Man-hours	4	45-48	R	
B	45-59	FSN (part)	15	49-63		
B	60-62	Quantity	4	64-67	R	LDC will emit "ø" in card column 64.
LDC		Part cost	7	68-74	R	
D	64	Control	1	75		
LDC		Parts manager RIC	3	76-78		
B	16	Failure detected code	1	79		
B	17-19	First indication of trouble	3	80-82		
		Blank	1	83		
C	16-20	Hours	5	84-88	R	
C	21-25	Miles	5	89-93	R	

[2]See footnote 2, page 13.

(2408-3 TRAILER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
C	26-30	Rounds/starts	5	94-98	R	
C	31-34	Date (Julian)	4	99-102		
		Blank	1	103		
		Record mark	1	104		"≠."

[2]See footnote 2, page 13.


TITLE: STANDARD TRANSFER RECORD--2408-3 TRAILER
DATA PROCESSING STORAGE LAYOUT
BIT
DATA
ROUTING IDENTIFIER CODE
DOCUMENT NUMBER
BATCH NUMBER
JULIAN PROCESSING DATE
CONTROL NUMBER
CORR CODE
"D" RECORD CODE
ACTION CODE
FAILURE CODE
COMPONENT, PART, NOUN, OR SERVICE
COMPONENT BREAKDOWN (CB) CODE
DESIGNATOR
MANUFACTURER'S CODE
BLANK
MAN-HOURS
FSM PART
QUANTITY
PART COST
CONTROL
PARTS MANAGER RIC
FAILURE DET CODE
FIRST INDICATION OF TROUBLE
BLANK
HOURS
MILES
ROUNDS/STARTS
DATE (JULIAN)
DATE (JULIAN) (CONTINUED)
BLANK
RECORD MARK

(2408-7 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
	LDC[1]	Routing identifier code	3	1-3		
		Document number		(4-17)		
	LDC	Batch number	3	4-6		
	LDC	Julian processing date	4	7-10		Julian date.
J	1-6	Control number	6	11-16		
J	6	Correction code	1	17		No "11" punch in card column 6, card 1--no correction. "11" punch in card column 6, card 1--convert to numeric "1."
	LDC	Record code	1	18		"J."
		Reporting unit		(19-26)		
	LDC	Army area	1	19		
J	17-23	UIC	7	20-26		
		End item		(27-78)		
J	7-16	Serial number	10	27-36	R	

[1]See footnote 1, page 13.

[2]See footnote 2, page 13.

(2408-7 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
J	24-31	Noun	8	37-44		
J	32-39	Line number	8	45-52		
J	40-47	Model/series	8	53-60		
LDC		Manager RIC	3	61-63		
J	65-79	FSN of end item	15	64-78		
LDC		Serial/nonserial code	1	79		
LDC		Hours, miles, rounds, and starts	1	80		
LDC		MRW code[3]	1	81		
J	48	STRAC	1	82		"1"--Yes. "2"--No.
J	49	Utilization code	1	83		
K	17-20	Date of manufacture	4	84-87		
K	21-25	Manufacturer's code	5	88-92		
K	26-30	Hours	5	93-97	R	

[2]See footnote 2, page 13.

[3]See footnote 3, page 14.

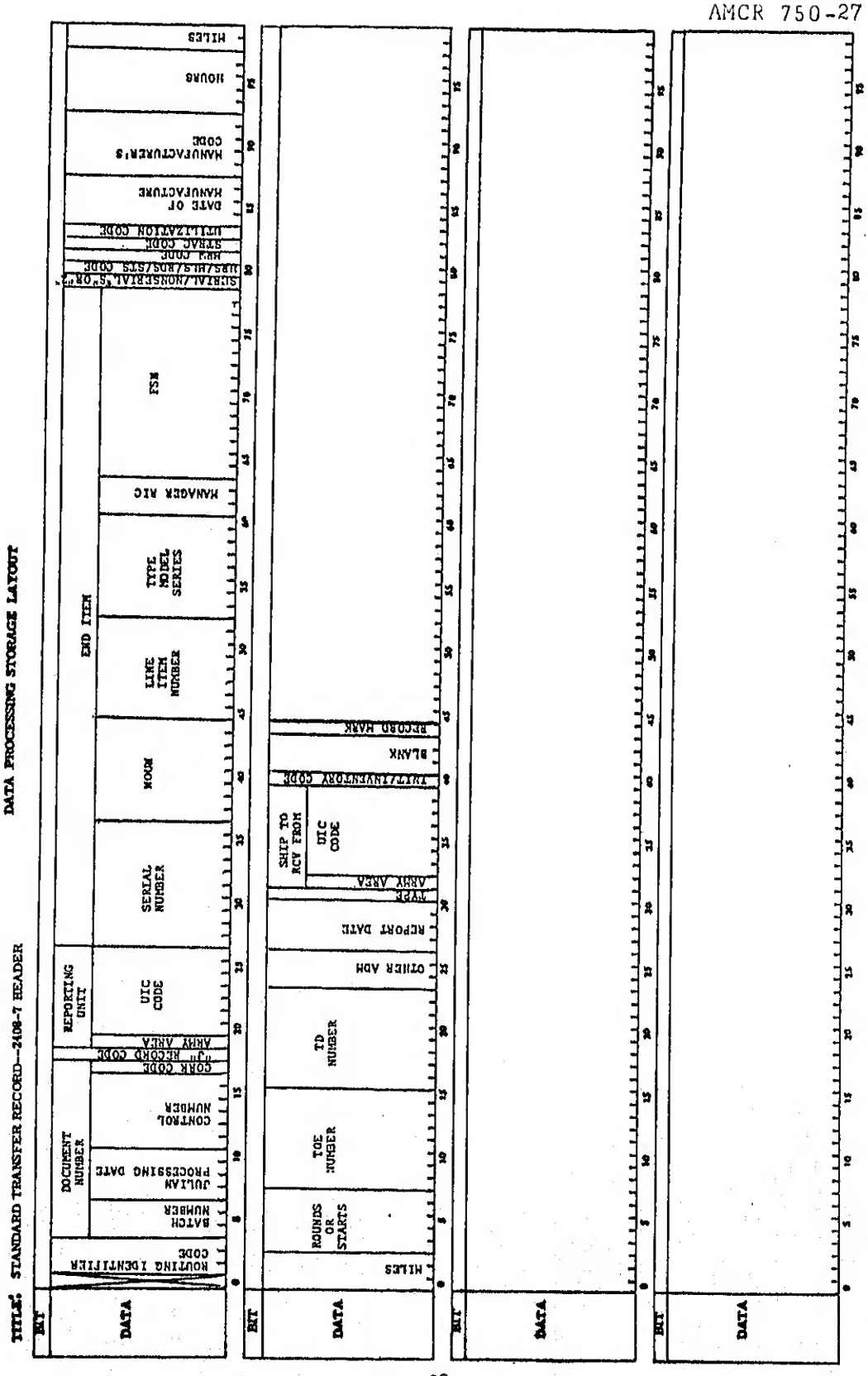
(2408-7 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
K	31-35	Miles	5	98-102	R	
K	36-40	Rounds/starts	5	103-107	R	
K	41-48	TOE number	8	108-115		
K	49-56	TD number	8	116-123		
K	57-59	Other	3	124-126		
K	60-63	Report date	4	127-130		
K	64	Type	1	131		
		Reporting unit		(132-139)		
LDC		Army area	1	132		
J	53-59	UIC	7	133-139		
J	79	Initial inventory code	1	140		Blank--normal. "1"--Initial inventory.
		Blank	2	141-143		
		Record mark	1	144		"≠."

[2]See footnote 2, page 13.

TITLE: STANDARD TRANSFER RECORD—2408-7 HEADER

DATA PROCESSING STORAGE LAYOUT



(2408-8 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
	LDC[1]	Routing identifier code	3	1-3		
		Document number		(4-17)		
	LDC	Batch number	3	4-6		
	LDC	Julian processing date	4	7-10		Julian date.
G	1-6	Control number	6	11-16		
G	6	Correction code	1	17		No "11" punch in card column 6, card 1--no correction. "11" punch in card column 6, card 1--convert to numeric "1."
	LDC	Record code	1	18		"G."
		Reporting unit		(19-26)		
	LDC	Army area	1	19		
G	17-23	UIC	7	20-26		
		End item		(27-78)		
G	7-16	Serial number	10	27-36	R	

[1]See footnote 1, page 13.

[2]See footnote 2, page 13.

(2408-8 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
G	24-31	Noun	8	37-44		
G	32-39	Line number	8	45-52		
G	40-47	Model/series	8	53-60		
	LDC	Manager RIC		61-63		
G	65-75	Federal stock number (FSN) of end item	15	64-78		15-position field left for compatability. Only 11 positions appear in card.
	LDC	Serial/nonserial code	1	79		"S" equals serial. "Z" equals nonserial.
	LDC	Hours, miles, rounds, and starts	1	80		
	LDC	MRW code[3]	1	81		
		Blank	2	82-83		
H	17-20	Date of manufacture	4	84-87		
H	30-34	Manufacturer's code	5	88-92		
H	21-29	Manufacturer	9	93-101		

[2]See footnote 2, page 13.

[3]See footnote 3, page 14.

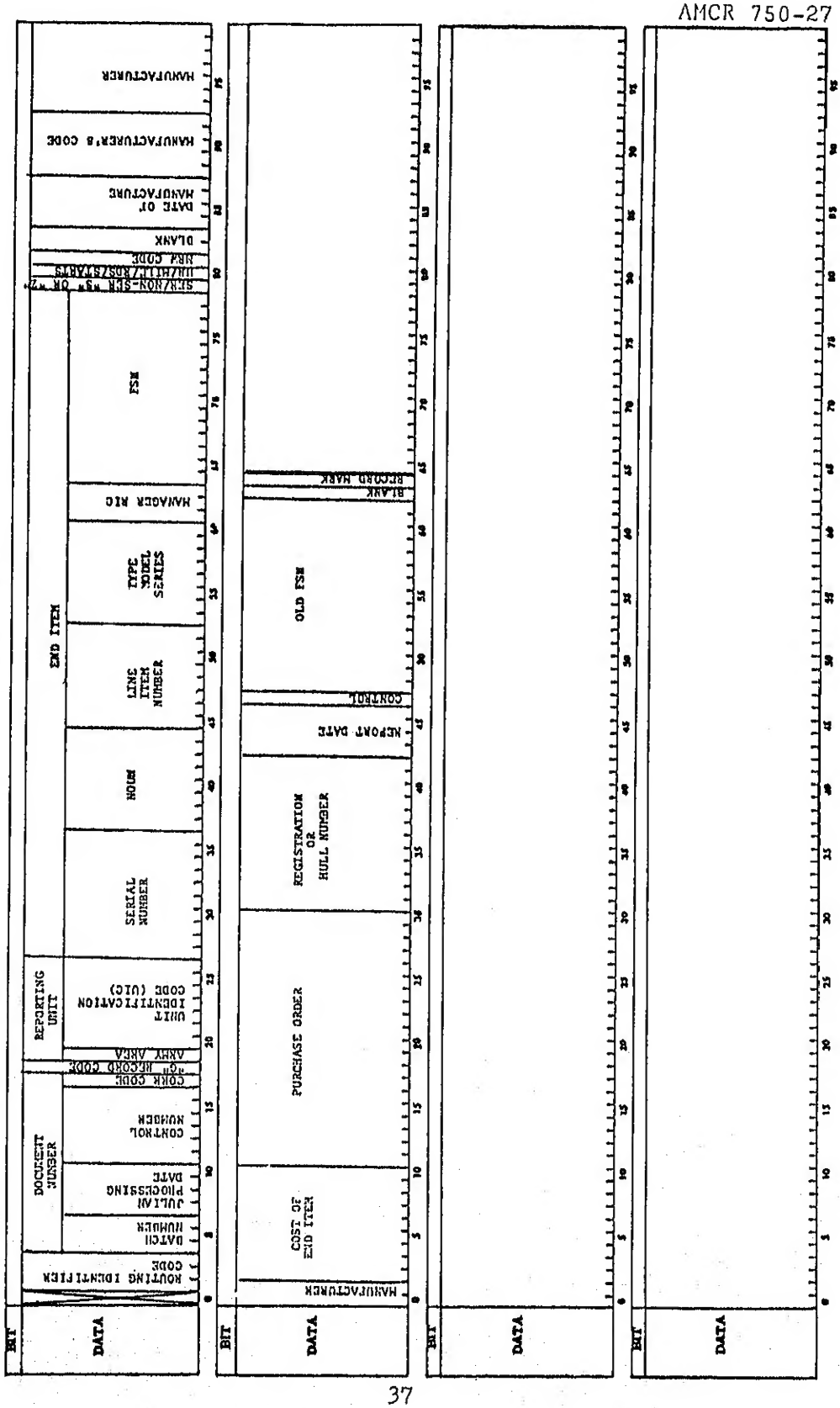
(2408-8 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
H	35-43	Cost of end item	9	102-110	R	
H	44-63	Purchase order	20	111-130		
G	48-59	Registration of hull number	12	131-142	R	
G	60-63	Report date	4	143-146		
G	64	Control	1	147		Blank--No change. "1"--FSN change.
I	49-63	Old FSN	15	148-162		Blank, if no change.
		Blank	1	163		
		Record mark	1	164		"≠."

[2]See footnote 2, page 13.

DATA PROCESSING STORAGE LAYOUT

TITLE: STANDARD TRANSFER RECORD--2408-8 HEADER



(2408-7 and 2408-8 TRAILERS)

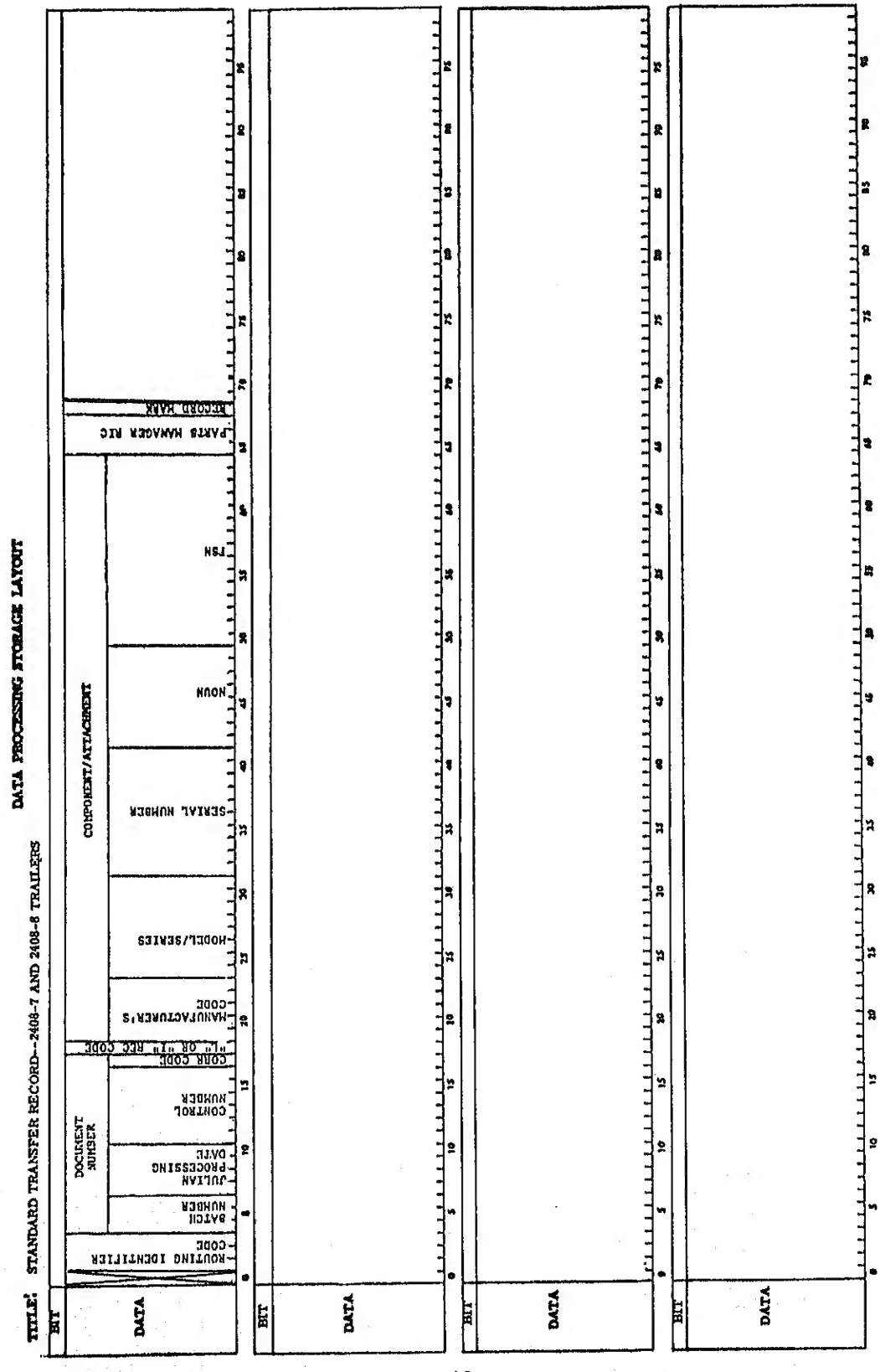
From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
	LDC[1]	Routing identifier code	3	1-3		
		Document number		(4-17)		
	LDC	Batch number	3	4-6		
	LDC	Julian processing date	4	7-10		Julian date.
I/M	1-6	Control number	6	11-16		
I/M	6	Correction number	1	17		No "11" punch in card column 6, card 1--no correction. "11" punch in card column 6, card 1--convert to numeric "1."
	LDC	Record code	1	18		"L" for 2408-7. "I" for 2408-8.
		Component/attachment		(19-64)		
I/M	17-21	Manufacturer's code	5	19-23		
I/M	22-29	Model/series	8	24-31		
I/M	30-39	Serial number	10	32-41	R	
I/M	40-47	Noun	8	42-49		

[1]See footnote 1, page 13.

[2]See footnote 2, page 13.

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
I/M	49-63	FSN	15	50-64		
LDC		Part (attachment) manager RIC	3	65-67		
		Record mark	1	68		"≠."

[2] See page 13.


DATA PROCESSING STORAGE LAYOUT
TITLE: STANDARD TRANSFER RECORD--2408-7 AND 2408-8 TRAILERS
BIT
DATA
ROUTING IDENTIFIER CODE
DOCUMENT NUMBER
BATCH NUMBER
JULIAN PROCESSING DATE
CONTROL NUMBER
CORR CODE
"L" OR "T" REC CODE
COMPONENT/ATTACHMENT
MANUFACTURER'S CODE
MODEL/SERIES
SERIAL NUMBER
NOUN
TSN
PARTS MANAGER NIC
RECORD MARK

(2410 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
	LDC[1]	Routing identifier code	3	1-3		
		Document number		(4-17)		
	LDC	Batch number	3	4-6		
	LDC	Julian processing date	4	7-10		Julian date.
T	1-6	Control number	6	11-16		
T	6	Correction code	1	17		No "11" punch in card column 6, card 1--no correction. "11" punch in card column 6, card 1--convert to numeric "1."
	LDC	Record code	1	18		"T."
T	79	Copy.	1	19		
		Component		(20-94)		
T	7-21	FSN	15	20-34		
T	22-31	Serial number	10	35-44	R	
W	66-73	Serial number (overflow)	8	45-52		

[1]See footnote 1, page 13.

[2]See footnote 2, page 13.

(2410 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
T	32-39	Noun	8	53-60		
T	40-47	Model	8	61-68		
T	48-52	Manufacturer's code	5	69-73		
T	53-67	Part number	21	74-94		
T	21	Aircraft designator	1	95		Blank or "2."
T	74	Transaction code	1	96		
T	79	Initial inventory code	1	97		Blank or "1."
T	75-78	Date inspection and action	4	98-101		
U	32-35	Hours	4	102-105	R	
U	36-40	Miles	5	106-110	R	
U	41-42	Number of overhauls	2	111-112	R	
		Hours		(113-126)		
U	43-46	Time between overhauls (TBO)	5	113-117	R	LDC will decode zone punch in card column 43.
U	47-51	Since new	5	118-122	R	

[2]See footnote 2, page 13.

(2410 HEADER)

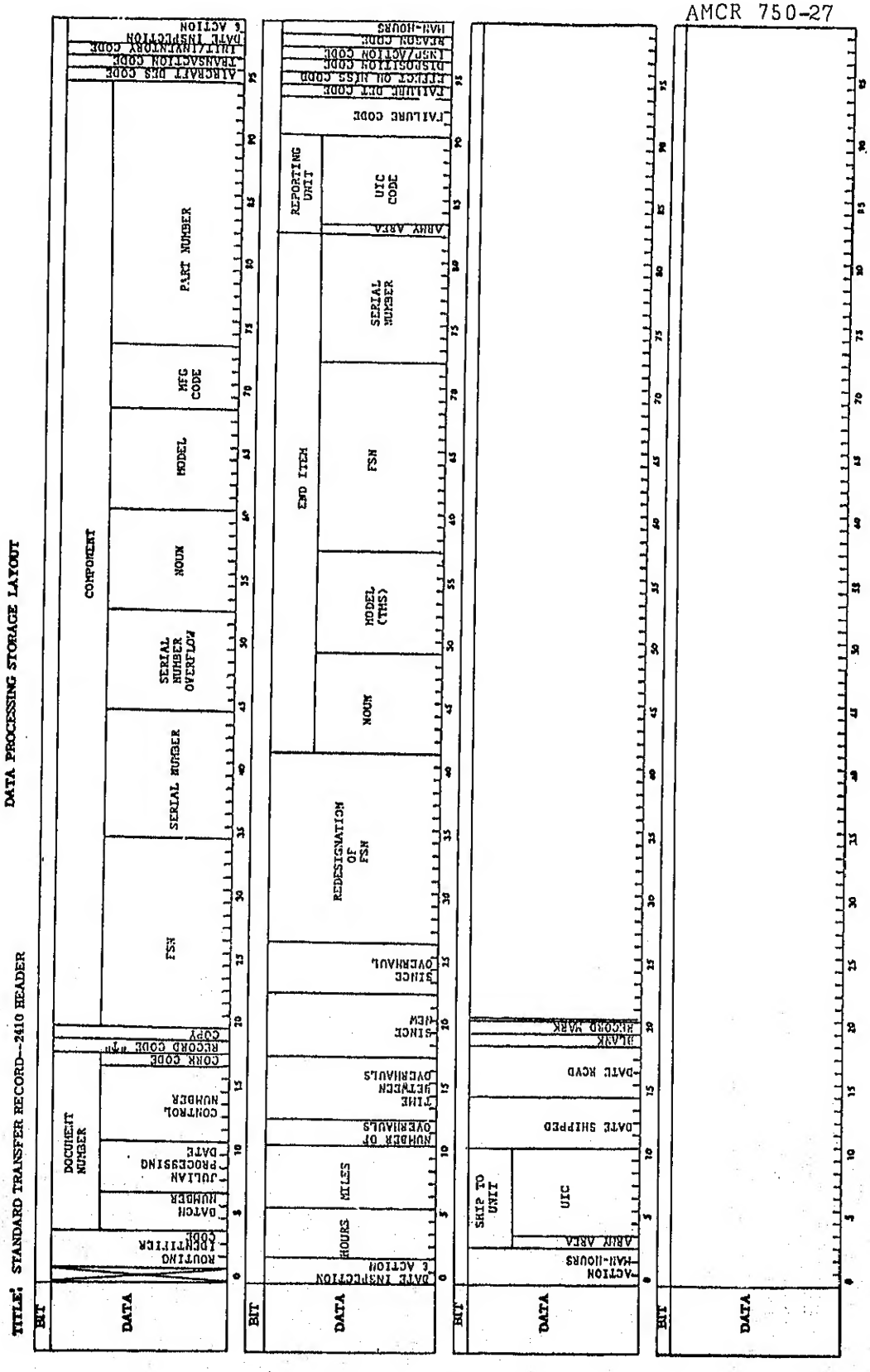
From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
U	52-55	Since overhaul	4	123-126	R	
U	56-70	Redesignation of FSN	15	127-141		
		End item		(142-182)		
V	32-39	Noun removed (From)	8	142-149		
V	40-47	Model removed (From)	8	150-157		
V	48-62	FSN removed (From)	15	158-172		
V	63-72	Serial number removed (From)	10	173-182	R	
LDC		Army area of reporting unit	1	183		
W	32-38	Reporting UIC	7	184-190		
W	39-41	Failure code (component)	3	191-193		
W	42	Failure detected during code (component)	1	194		
W	43	Effect on mission code (component)	1	195		
W	44	Disposition code (component)	1	196		

[2]See footnote 2, page 13.

(2410 HEADER)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
W	45	Inspect code	1	197		
W	46	Reason	1	198		
W	47-50	Man-hours	4	199-202	R	
LDC		Army area (Ship To)	1	203		
W	51-57	UIC (Ship To)	7	204-210		
W	58-61	Date shipped	4	211-214		
W	62-65	Date received	4	215-218		
		Blank	1	219		
		Record mark	1	220		"≠."

[2]See footnote 2, page 13.


TITLE: STANDARD TRANSFER RECORD--2410 HEADER
DATA PROCESSING STORAGE LAYOUT
BIT
DATA
DOCUMENT NUMBER
ROUTING IDENTIFIER CODE
BATCH NUMBER
JULIAN PROCESSING DATE
CONTROL NUMBER
CORR CODE
RECORD CODE "3"
COPY
FSN
SERIAL NUMBER
SERIAL NUMBER OVERFLOW
NOUN
MODEL
MFG CODE
PART NUMBER
COMPONENT
AIRCRAFT DES CODE
TRANSACTION CODE
UNIT/INVENTORY CODE
DATE INSPECTION & ACTION
DATE INSPECTION & ACTION
HOURS
MILES
NUMBER OF OVERHAULS
TIME BETWEEN OVERHAULS
TIME SINCE NEW
TIME SINCE OVERHAUL
REDESIGNATION OF FSN
NOUN
MODEL (THIS)
FSN
SERIAL NUMBER
ARMY AREA
REPORTING UNIT
UIC CODE
END ITEM
FAILURE CODE
FAILURE DET CODE
EFFECT ON MISS CODE
DISPOSITION CODE
INSP/ACTION CODE
REASON CODE
MAN-HOURS
ACTION MAN-HOURS
ARMY AREA
SHIP TO UNIT
UIC
DATE SHIPPED
DATE RCVD
BLANK
RECORD MARK

(2410 TYPE "X" RECORD)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
	LDC[1]	Routing identifier code	3	1-3		
		Document number		(4-17)		
	LDC	Batch number	3	4-6		
	LDC	Julian processing date	4	7-10		Julian date.
X	1-6	Control number	6	11-16		
X	6	Correction code	1	17		No "11" punch in card column 6, card 1--no correction. "11" punch in card column 6, card 1--convert to numeric "1."
	LDC	Record code	1	18		"X."
X	79	Copy	1	19		
		Part		[20-53]		
X	32-34	Failure code	3	20-22		
X	(35-46)	Part noun	12	(23-34)		
X	35-39	CB code	5	23-27		

[1]See footnote 1, page 13.

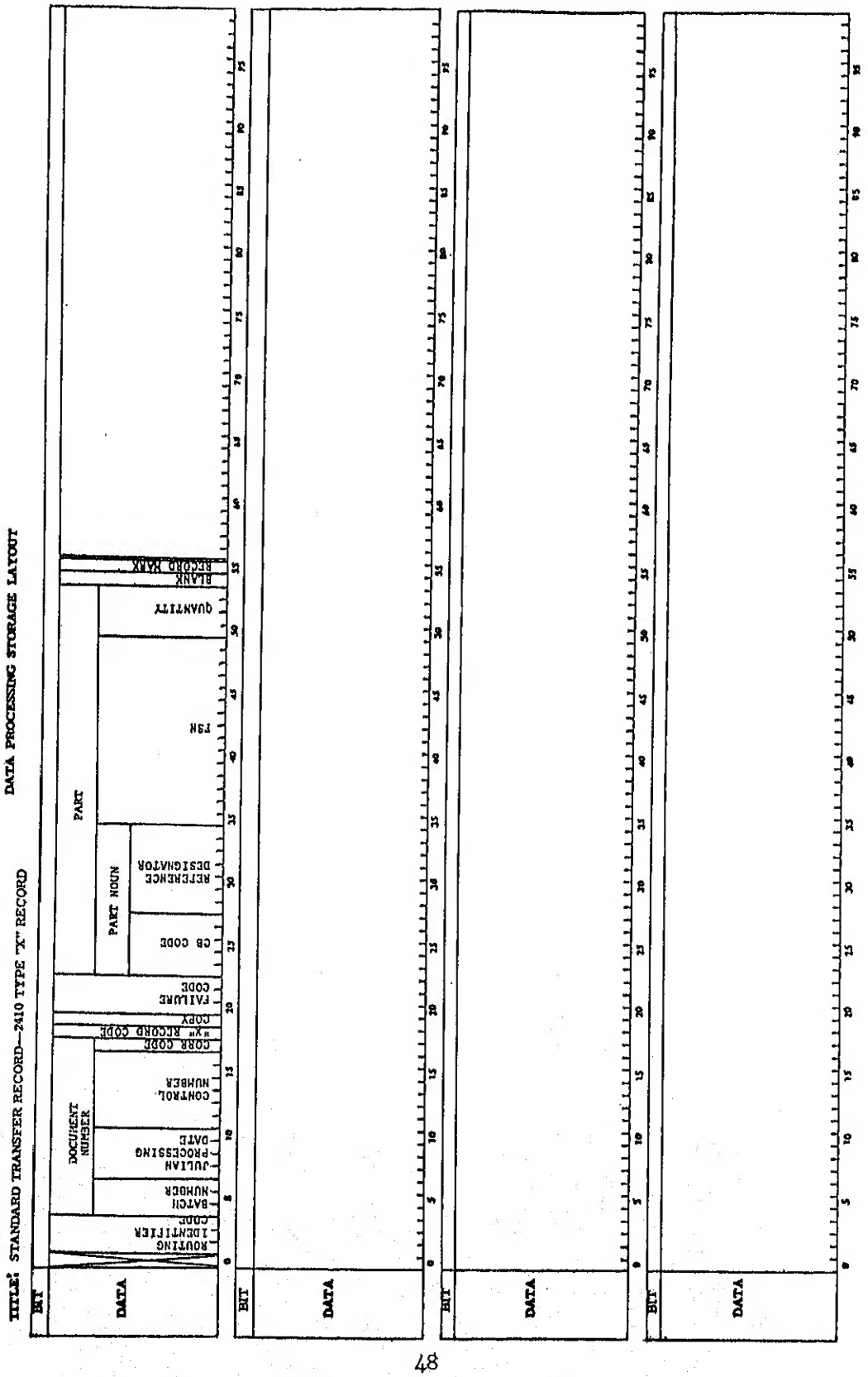
[2]See footnote 2, page 13.

APPENDIX I--Continued

(2410 TYPE "X" RECORD)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
X	40-46	Reference designator	7	28-34		
X	47-61	FSN	15	35-49		
X	62-65	Quantity	4	50-53	R	
		Blank	1	54		
		Record mark	1	55		"≠."

[2]See footnote 2, page 13.


DATA PROCESSING STORAGE LAYOUT
TITLE: STANDARD TRANSFER RECORD—2410 TYPE "X" RECORD
BIT
DATA
ROUTING IDENTIFIER CODE
DOCUMENT NUMBER
BATCH NUMBER
JULIAN PROCESSING DATE
CONTROL NUMBER
CORR CODE
"X" RECORD CODE
COPY
FAILURE CODE
PART
CB CODE
PART NOUN
REFERENCE DESIGNATOR
FSN
QUANTITY
BLANK
RECORD MARK
BIT
DATA
BIT
DATA
BIT
DATA

(2410-1 TYPE "Z" RECORD)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
	LDC[1]	Routing identifier code	3	1-3		
		Document number		(4-17)		
	LDC	Batch number	3	4-6		
	LDC	Julian processing date	4	7-10		Julian date.
Z	1-6	Control number	6	11-16		
Z	6	Correction code	1	17		No "11" punch in card column 6, card 1--no correction. "11" punch in card column 6, card 1--convert to numeric "1."
	LDC	Record code	1	18		"Z."
Z	21	Aircraft designator code	1	19		
Z	7-21	Component FSN	15	20-34		
Z	22-31	Component serial number	18	35-52	R	
	LDC	Army area of reporting unit	1	53		
Z	32-38	UIC code	7	54-60		

[1]See footnote 1, page 13.

[2]See footnote 2, page 13.

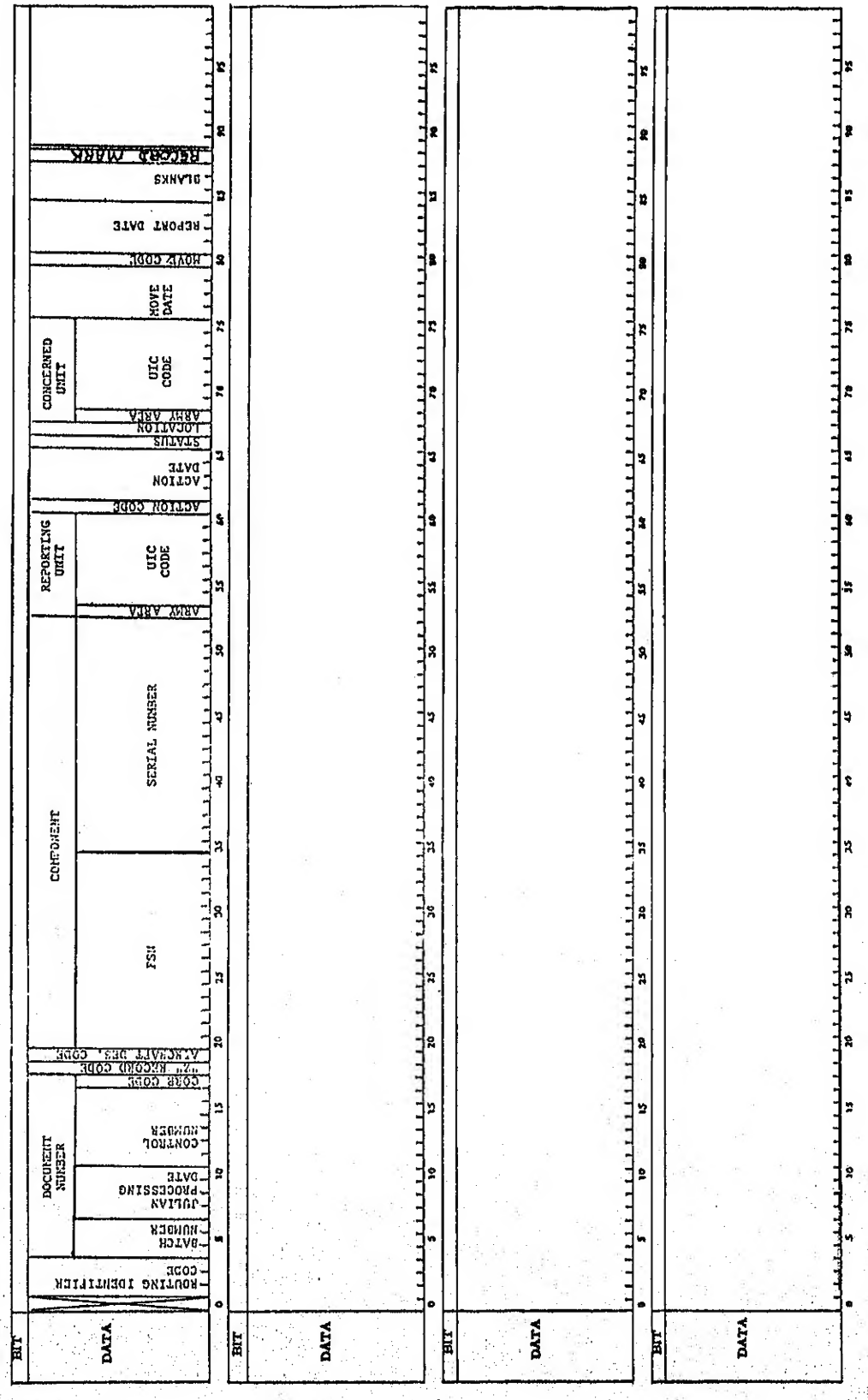
(2410-1 TYPE "Z" RECORD)

From Card code	From Card colm	Field legend	Total pos.	Tape pos.	Justify[2]	Explanation
Z	39	Action code	1	61		
Z	40-43	Action date	4	62-65		
Z	44	Status	1	66		
Z	45	Location	1	67		
LDC		Army area of concerned unit	1	68		
Z	51-57	Concerned UIC	7	69-75		
Z	58-61	Move date	4	76-79		
Z	74	Move code	1	80		
Z	75-78	Report date	4	81-84		
		Blanks	3	85-87		
		Record mark	1	88		"≠."

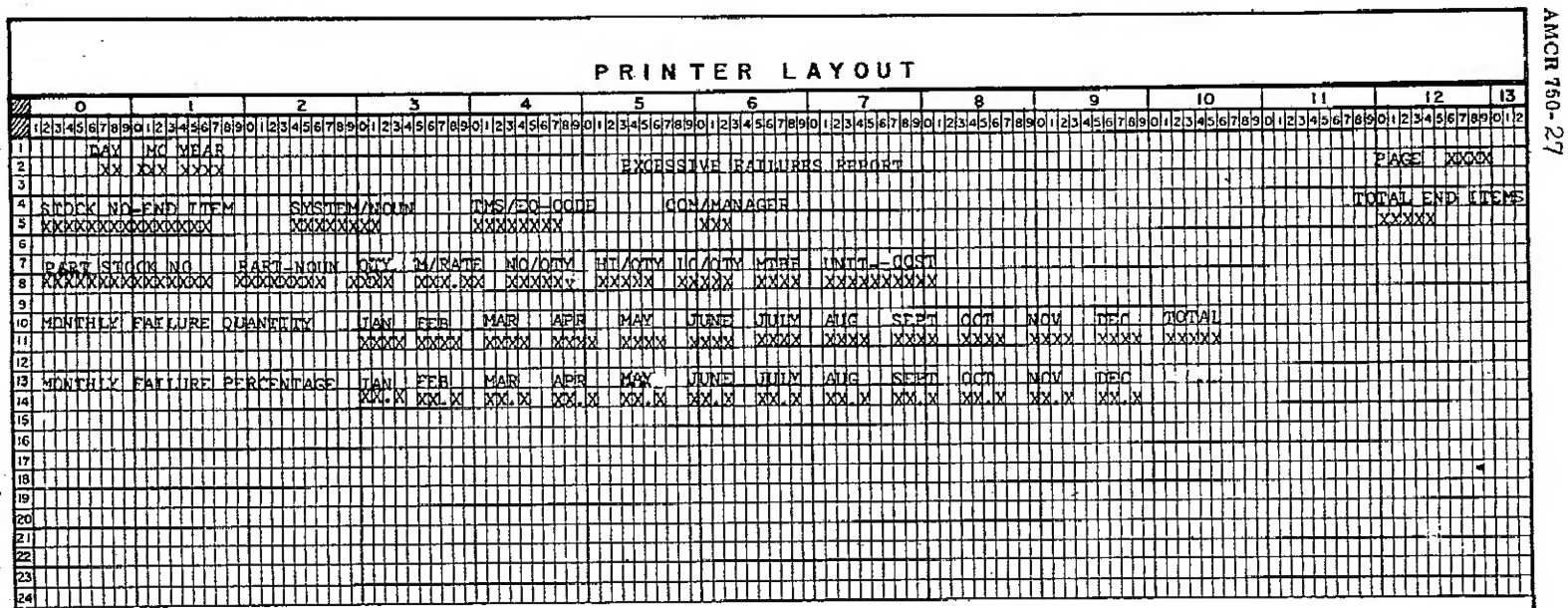
[2]See footnote 2, page 13.

DATA PROCESSING STORAGE LAYOUT

TITLE: STANDARD TRANSFER RECORD--2410-1 TYPE "Z" RECORD



PRINTER LAYOUT



REMARKS

LINE	COLUMNS	EXPLANATION
5	2-16	STOCK NUMBER OF END ITEM.
	24-31	SYSTEMS APPLICATION OR NOUN OF END ITEM.
	40-47	TYPE, MODEL, SERIES, OR EQUIPMENT CODE OF END ITEM.
	60-62	COMMAND MANAGER OF END ITEM.
	120-124	TOTAL QUANTITY OF END ITEM.
8	2-16	PART OR COMPONENT STOCK NUMBER.
	19-26	NOUN OF PART OR COMPONENT.
	29-32	QUANTITY OF PART OR COMPONENT IN END ITEM.
	35-40	MAINTENANCE RATE (PARTS FAILURE RATE).
	43-48	NORMAL MAINTENANCE QUANTITY.
	*51-55	HIGH MAINTENANCE QUANTITY.
	*58-62	LOW MAINTENANCE QUANTITY.
	65-68	MEAN TIME BETWEEN FAILURES.
	71-80	UNIT COST OF PART OR COMPONENT.
11	30-98	JANUARY THROUGH DECEMBER FAILURES BY MONTH.
	101-105	TOTAL FAILURES FOR YEAR.
14	30-98	JANUARY THROUGH DECEMBER PERCENTAGES OF FAILURES BY MONTH TO TOTAL FAILURES.

*HIGH AND LOW QUANTITY PER FLIGHT HOURS FOR USAAVCOM (UNITED STATES ARMY AVIATION MATERIEL COMMAND) ONLY.